

COMMERCIAL STANDARD CS147-47

for

COLORS FOR MOLDED UREA PLASTICS

1. PURPOSE

1.1. The purpose of this commercial standard is to promote understanding, and to facilitate the sale and purchase of colored molded urea plastic materials and products. Among the results to be accomplished are:

1.1.1. Clear understanding between molders, manufacturers, and purchasers of goods as to the exact color wanted; an easy method of designating colors, allowing simpler contracts with purchasers of molded products, with less chance of error.

1.1.2. Fewer rejections of material and finished goods.1.1.3. Quicker deliveries because colors can be stocked; smaller inventories for molders; simpler storage and stocking of colored

products; faster turn-over of material and finished goods.

1.1.4. Interchangeability of finished products; less hazard of obsolescence of consumers' goods in hands of molders and their

customers.

The adoption of standard colors is not intended to restrict the production of other colors. It is the intent that plastic materials manufacturers will continue their custom of the past in supplying any colors desired by their customers when the amount involved warrants it, such colors being furnished without reference to this commercial standard.

2. SCOPE

2.1. This standard covers 17 colors adopted as standard by the industry. It defines the standard colors in reproducible terms; specifies tolerances; provides for standard samples and designations to be used by materials manufacturers, molders, and purchasers in specifying the colors desired.

3. REQUIREMENTS

3.1. Colors.—The 17 colors covered by this commercial standard

are specified in table 1.

Tolerances.—Articles supplied as conforming to any color of the standard, except white and near-white, shall conform to the designated standard within 5 NBS units 1 of color difference under daylight and incandescent lamp illumination. A tolerance of 2 NBS units shall apply to MUP-00, MUP-01, MUP-02, and MUP-03. BBSSSS

¹ See Appendix, p. 4.

REPORT

TABLE 1

Color designa- tion	Color name 1 ISOC-NBS	Munsell notation ?	Chroma- ticity coordi- nates s		Day- light re- flect- ance	Textile Color Card Association		Color Har- mony Man- ual closest color match s		
****			x	À	Y (%)	Cable No.	Designation	A	Desig- nation	AE
White: MUP-00 MUP-01	White Yellowish white.	6PB 8.8/0.4 10YR 9.0/1	0.310 .318	0.318 .325	74. 5 79. 3	70001	White	0.1	8	2
MUP-02 MUP-03 Green:	Yellowish gray Weak yellow	6.5Y 7.7/0.8 4.5Y 8.2/2.5	.820 .840	.830 .849	54. 8 61. 9	70003	Cream	2	2ca*	8
MUP-12	Light green	8. 5G 6. 6/5. 8	. 281	. 882	37.7	70214		2	22ga	4
MUP-18.	Light blue- green.	4.5BG 6.6/6.4	. 258	. 328	87.0	70020	Turquoise	4	19ga	4
Pink: MUP-22 MUP-24	Moderate pink. Moderate orange pink.	10RP 6.7/8.9 1YR 7.1/8.8	.370 .869	.805 .833	39. 1 44. 3	70097 70 181	Vassar rose Ohalk pink	1 8	8gn* 500	6 3
Yellow: MUP-32 MUP-37	Weak yellow Strong yellow	5Y 7.8/8,1 5.5Y 7.6/12	.850 .456	.861 .487	56.0 52.6	70004 70205	Eggshell Lemon yellow.	2		
Blue: MUP-42	Vivid purplish	5PB 4.8/18+*	. 191	.191	14.0	70211	Bluebird	4	14la	4
MUP-43	blue. Light blue	2.5PB 5.9/6.7	. 243	. 255	29.3	70043	Sistine	6	14ga	5
Orange: MUP-68	Vivid reddish orange.	1YR 5.8/16*	. 594	.380	22.9	70072	Indian orange.	4		
Black: MUP-60	Black	1.'8PB 0. 2/0. 4	. 296	. 299	.2	65018	Army black.	.4	p	0.3
Gray: MUP-69	Medium gray	N 5.7/	.309	.316	26.8	70152	Nickel	8		3
Red: MUP-71	Vivid red	6R 3.6/18+*	.641	. 326	9.5	70042	Pimento	.4	7pa	2
Maroon: MUP-75	Deep red	5R 1.4/12.5*	. 578	. 277	1.9	70083	Garnet	2		
			-		1					

Inter Society Color Council, National Bureau of Standards. See "Method of Designating Colors," by D. B. Judd and K. L. Kelly, Journal of Research of the National Bureau of Standards 23, 355.

'Munsell Book of Color, published by Munsell Color Co., 10 East Franklin Street, Baltimore, Md. Asterisks (*) indicate Munsell notations of the commercial standard colors that are so far outside the range of the colors in the Munsell book as to be considerably less certain than those found by interpolation.

'Standard coordinate system for colorimetry recommended in 1931 by the International Commission on Illumination (ICI). Data computed for ICI standard source C from spectrophotometric measurements.

'This tabulation is included for the convenience of those who wish to select textile colors to harmonize with the commercial standard plastic colors. The entries designate colors in the Standard Color Card of America, 9th edition, and the U. S. Army Color Card, both issued by the Textile Color Card Association of the U. S., Inc., 200 Madison Avenue, New York City. The color chosen is the particular one of the near color matches represented in these cards that has the closest hue match to the commercial standard color. The column headed "AH" indicates the amount of hue difference between the commercial standard color and the TCCA color determined spectrophotometrically (J. Research NBS 36, 209 (1946); RP1700), expressed in NBS units. (See Appendix.)

'The column headed "Designation" gives the designation of the closest color match in the Color Harmony Manual (1942 and 1946 editions), issued by the Container Corporation of America, Inc., 38 S. Dearboen Street, Chicago 3, III. The glossy side of the CHM sample was used for comparison in all cases except those indicated by an asterisk (*). In those cases the dull side was used. The column headed "AE" indicates the amount of color difference between the commercial standard color and the CHM color, expressed in NBS units. (See Appendix.) Since the foregoing comparisons were made,

Standard samples.—Standard samples shall be made of molded urea plastic material, and will be available from the Plastic Materials Manufacturers Association, Tower Building, 14th and K Streets, Northwest, Washington 5, D. C., for \$2.50 per set of 17. Standard samples shall conform to the ICI specifications given in table 1 (i. e., shall be duplicates of the originally adopted samples) within a tolerance of 1 NBS unit.

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4. IDENTIFICATION

4.1. It is recommended that plastic materials and products conforming to colors covered by this commercial standard be identified by means of labels, tags, invoices, etc. The following form is recommended:

> The color of this molded urea plastic article (or urea plastic molding material) conforms to color MUP—, as specified in Commercial Standard CS147-47, as developed by the trade under the procedure of the National Bureau of Standards, and issued by the U. S. Department of Commerce.

When available space on labels is insufficient for the full statement in legible type, an abbreviated statement as follows is recommended:

Complies with CS147-47 as developed by the trade, and issued by the U.S. Department of Commerce.

EFFECTIVE DATE

5. Having been passed through the regular procedure of the Commodity Standards Division, and approved by the acceptors hereinafter listed, this commercial standard was issued by the United States Department of Commerce, effective from December 15, 1947.

> Edwin W. Elv. Chief, Commodity Standards Division.

HISTORY OF PROJECT

6. On January 4, 1945, the Plastic Materials Manufacturers Association requested the cooperation of the National Bureau of Standards in the establishment of a commercial standard for colors for molded urea plastics.

After circularization of the industry to ascertain extent of interest in the project, a set of 17 tentative molded color samples was mailed on July 2, 1946, to all interested parties, and comment was requested on the selection of colors. A proposed commercial standard was circulated to interested organizations on October 2, 1946, also requesting comment.

Following receipt of comment on both the proposed commercial standard and the selection of colors, a Recommended Commercial Standard was circulated to the trade on February 10, 1947. The specification and the listed colors were the result of adjustment in accordance with majority viewpoint as indicated by the comment.

On November 14, 1947, having received acceptances in writing estimated to represent a satisfactory majority, announcement was issued that the commercial standard, designated CS147-47, would become effective for new production on December 15, 1947.

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STANDING COMMITTEE

7. The following individuals comprise the membership of the standing committee, which is to review, prior to circulation for acceptance, revisions proposed to keep the standard abreast of progress. Comment concerning the standard and suggestions for revision may be addressed to any member of the committee or to the Commodity Standards Division, National Bureau of Standards, which acts as secretary for the committee.

F. H. CARMAN (chairman), Plastic Materials Manufacturers Association, Inc., 731 Tower Building, Washington 5, D. C.
HORTON SPITZER, Plaskon Division, Libbey-Owens-Ford Glass Co., 2112 Sylvan Avenue, Toledo 6, Ohio.
WILLIAM H. MACHALE, Plastics Department, American Cyanamid Co., 30 Rockefeller Plaza, New York 20, N. Y.
EDWIN F. JAMES, Sylvan Plastics, Inc., 350 Fifth Avenue, New York 1, N. Y.
R. H. CUNNINGHAM, Bryant Electric Co., Bridgeport, Conn.
FRANK WARNER, General Electric Company, 1 Plastics Avenue, Pittsfield, Mass.
SIDNEY EMSIG, Emsig Manufacturing Co., 225 West Sixtieth Street, New York 23, N. Y.
GEORGE W. CARLSON, Arrow-Hart & Hegeman Electric Co., 103 Hawthorn

GEORGE W. CARLSON, Arrow-Hart & Hegeman Electric Co., 103 Hawthorn Street, Hartford, Conn.

MRS. MARGARET H. RORKE, The Textile Color Card Association of the United States, Inc., 200 Madison Avenue, New York 16, N. Y. WALTER C. GRANVILLE, Container Corp. of America, 38 South Dearborn Street,

Chicago 3, Ill.

APPENDIX

THE NBS UNIT OF COLOR DIFFERENCE

By D. B. Judd

The size of any color difference may be found in NBS units by calculation from the ICI tristimulus values (X, Y, Z) of the two colors, and it may also be found from colorimetric comparison of the two specimens. If the specimens are of similar composition and essentially nonfluorescent, the determination may be made by means of a photoelectric tristimulus colorimeter as described in NBS Circular

The size of the difference may also be estimated conveniently and with considerable reliability from the Munsell renotations of the two colors. One NBS unit corresponds approximately to 0.10 Munsell value step, to 0.15 Munsell chroma step and to 0.25 Munsell hue step at chroma 10, or to 2.5 Munsell hue steps at chroma 1. If the two colors differ in more than one dimension the number of NBS units may be estimated by taking the sum of the NBS units in each

The NBS unit of color difference is intended to be so small that color differences of less than one unit will be perceptually unimportant in most commercial transactions. This unit is about 3 or 4 times the smallest color difference perceptible with certainty under the best conditions of observation by a trained inspector. One NBS unit is regarded as a reasonable tolerance within which a working

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standard of color should duplicate the master standard. This applies

to incandescent-lamp light as well as daylight illumination.

In specifying 5 NBS units as a tolerance within which the colors of products shall conform to the working standard, the desire was to avoid a strict tolerance that would work undue hardship on the manufacturer, or cause unwarranted cost to the purchaser. A difference of 5 NBS units is quite easily detected by an inspector under favorable conditions of observation (i. e., uniform illumination, large areas for comparison and proximity of compared areas, similarity of shape and surface texture, and absence of specular reflections or reflections from colored surroundings); indeed, a difference of double that amount is likely to give the impression that the two colors are distinctly different rather than one being merely a variation or shade of the other. On the other hand, the complex shapes of most articles manufactured from plastic materials renders small color differences unimportant. On this account, a tolerance of 5 NBS units is expected to yield a match in general quite satisfactory to the customer.

An exception to this general rule applies to the near-white standards. Near-white colors are very frequently used and the observing conditions are more often such that color tolerances for near-whites are more strict than for other colors. Accordingly, a smaller tolerance is considered necessary to match satisfactorily the near-white standards. This opinion is borne out by the fact that the master standard MUP-00 differs from MUP-01 by slightly less than 5 NBS units, as does also MUP-02 from MUP-03, while the color differences

are quite noticeable under usual viewing conditions.

An exception in the opposite sense may be experienced if the color of a plastic be compared to a material of widely different texture or finish, such as a textile. Often a color difference of as much as 10 NBS units or more may be considered an acceptable commercial match in such cases. The most important condition to be satisfied

is that the textile duplicate closely the hue of the plastic.

AMENDMENT NO. 1 COLORS FOR MOLDED UREA PLASTICS COMMERCIAL STANDARD CS147-47

The Standing Committee for Molded Urea Plastics has approved changes in the colors covered by Commercial Standard CS147-47. All acceptors were previously notified, none of which has filed objections to the Accordingly, the changes shown below will become effective beginning February 15, 1954. changes.

- Colors designated MUP-02, MUP-58 and MUP-60 shall be discontinued as standard colors.
- New colors shown below in Table 1 (Supplement) are added to the list of standard colors.

Table 1 (Supplement)

Color Desig- nation	Color name ISCC-NBS	Munsell notation	Chromaticity Coordinates	ticity nates	Daylight Reflectance	Textile Asso	Textile Color Card Association closest hue match	Color Harmony Manual closest color match
41			. 🗙	Ŋ	¥ <i>%</i>	Cable No.	Designation	Designation
WHITE: MUP-05	White	2.518.7/0.5	.306 .318	.318	56.0	4	ŧ	. 8
GREEN: MUP-14	Strong	2 501 5/20	870	761	ر د	47106	Primitive	500
BLUE:	מיים של אין בו	0.1/0.4500.2	3	5,4	0.	OTO	Teers	つづかな
B BOWN:	black	7.5PB1.5/1.0	.293	.296	5.0	70090	Midnight	1350
MUP-55	Light brown	7.51R4.8/3.4	.377	.361	18.8	70092	Cork	31g*
MUP-65	Medium grey	N4.8	.303	.303 .312	21.2	70153	Steel	<i>t</i> 0

Munsell notations, chromaticity coordinates, and daylight reflectance data were furnished by the Menufacturing Chemists! Association; Textile Color Card and Color Harmony Manual data were nished respectively by the Textile Color Card Assn. and Container Corporation of America. See footnotes to Table 1, GSL47-47, for explanation of column headings. Note:

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and returned will p this commercial sta	s not previously been file rovide for the recording indard.	ed, this sheet properly f of your organization as	illed in, signed, an acceptor of
-		Date	
Commodity Star National Bureau Washington 25,	ndards Division, of Standards, D. C.	***	
Gentlemen:		N/	
We believe the a useful standar far as practicable	nat the Commercial d of practice, and we e in the	Standard CS147-4 individually plan t	7 constitutes o utilize it as
production 1	distribution ¹	purchase 1	testing 1
of molded urea p	plastics.		
we understan comply with the as conforming th	d, of course, that or standard in all responses	nly those articles wo bects can be identifi	nich actually ed or labeled
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Name and title of Organization Street address City, Zone, and	horized officer (Kindly typewrite or print of above officer (Fill in exactly as it s	t the following lines) hould be listed)	

trade papers, etc., after the signature. 7

TO THE ACCEPTOR

The following statements answer the usual questions arising in

connection with the acceptance and its significance:

1. Enforcement.—Commercial standards are commodity specifications voluntarily established by mutual consent of those concerned. They present a common basis of understanding between the producer, distributor, and consumer and should not be confused with any plan of governmental regulation or control. The United States Department of Commerce has no regulatory power in the enforcement of their provisions, but since they represent the will of the interested groups as a whole, their provisions through usage soon become established as trade customs, and are made effective through incorpo-

ration into sales contracts by means of labels, invoices, and the like.

2. The acceptor's responsibility.—The purpose of commercial standards is to establish for specific commodities, nationally recognized grades or consumer criteria and the benefits therefrom will be measurable in direct proportion to their general recognition and actual usc. Instances will occur when it may be necessary to deviate from the standard and the signing of an acceptance does not preclude such departures; however, such signature indicates an intention to follow the commercial standard where practicable, in the production,

distribution, or consumption of the article in question.

3. The Department's responsibility.—The major function performed by the Department of Commerce in the voluntary establishment of commercial standards on a Nation-wide basis is fourfold; first, to act as an unbiased coordinator to bring all interested parties together for the mutually satisfactory adjustment of trade standards; second, to supply such assistance and advice as past experience with similar programs may suggest; third, to canvass and record the extent of acceptances and adherence to the standard on the part of producers, distributors, and users, and fourth, after acceptance, to publish and promulgate the standard for the information and guidance of buyers and sellers of the commodity.

4. Announcement and promulgation.—When the standard has been endorsed by a satisfactory majority of production or consumption in the absence of active valid opposition, the success of the project is announced. If, however, in the opinion of the Standing Committee or the Department of Commerce, the support of any standard is inadequate, the right is reserved to withhold promulgation and

publication.

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ACCEPTORS

The organizations listed below have individually accepted this standard for use as far as practicable in the production, distribution, testing, or purchase of colored molded urea plastics. In accepting the standard they reserved the right to depart therefrom as they individually deem advisable. It is expected that articles which actually comply with the requirements of this standard in all respects will be regularly identified or labeled as conforming thereto, and that purchasers will require such specific evidence of conformity.

ASSOCIATIONS (General Support)

American Association of Textile Chemists and Colorists, Bound Brook, N. J. Plastic Materials Manufacturers Association, Inc., Washington, D. C. Prefabricated Home Manufacturers' Institute, Washington, D. C. Rail Steel Bar Association, Chicago, Ill. FIRMS AND OTHER INTERESTS American Cyanamid Co., Calco Chemical Division, Bound Brook, N. J. American Cyanamid Co., Plastics Division, New York, N. Y. American Molding Co., San Francisco, Calif. (Gen-Bound Brook, N. J.

American Cyanamid Co., Plastics Division, New York, N. Y.

American Molding Co., San Francisco, Calif. (General support.)

American Optical Co., Scientific Instrument Division, Buffalo, N. Y.

American Phenolic Corp., Chicago, Ill.

American Stove Co., St. Louis, Mo.

Armstrong Cork Co., Lancaster, Pe.

Arrow-Hart & Hegeman Electric Co., Hartford, Conn.

Atlas Gonsolidated Corp., Brooklyn, N. Y.

Bolta Co., Lawrence, Mass.

Breinig Brothers, Inc., Hoboken, N. J.

Bruseman, Chas. W., Co., Clinchinati, Ohio.

Bridgeport Moulded Products, Inc., Fairfield, Conn.

Brown & Bigelow, St. Paul, Minn.

Butterfield, T. F., Inc., Naugatuck, Conn.

Canadian General Electric Co., Ltd., Toronto, Ontario, Canada.

Cavalier Corp., (formerly Tennessee Furnitive Corp.), Chattanoga, Tenn.

Chicago Molded Products Corp., Chicago, Ill.

Chuich, C. F., Manufacturing Co., Monson, Mass.

Circle F Manufacturing Co., Tenton, N. J.

Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn.

Container Corporation of America, Color Laboratories Division, Chicago, Ill. (General support.)

Continental Can Co., Inc., Plastics Division, Cambridge, Ohio.

Daystrom Corp., Olean, N. Y.

Dick, A. B., Co., Chicago, Ill.

Dimo Plastics, Inc., Dayton, Ohio.

Dow Chemical Co., The, Midland, Mich.

Dussi-Wallace & Co., New York, N. Y.

Easy Washing Machine Corp., Syracuse, N. Y.

Easy Washing Machine Corp., Boston, Mass., Ferro Enamel Corp., Cleveland, Ohio,

Ford Motor Co., Dearborn, Mich.

Formold Plastics, Inc., Chicago, Ill.

Full Bros., Inc., Baltimore, Md.

General Motors Corp., Delco Products Division, Caneral Motors Corp., Delco Products Division, Ceneral Motors Corp., Research Laboratories Division, Ceneral Motors Corp., Research Laboratories Division, Ceneral Motors Corp., Research Laboratories Division, Kolomo, Ind.

General Railway Signal Co., Rochester, N. Y.

Gibson Refrigerator Co., Greenville, Mich.

Hall China Co., The, Est. Liverpool, Ohio.

Hospital Bureau of Standards & Supplies, Inc., New York, N. Y.

Imperial M

Industrial Molded Products Co., Inc., Chicago, Ili.
Interchemical Corp., Bound Brook Division, Bound
Brook, N. J.
Kellogg Switchboard & Supply Co., Chicago, Ill.
Ketchem, Howard, Inc., New York, N. Y.
Kurz-Kasch, Inc., Dayton, Ohio.
Landers, Frary & Clark, New Britain, Conn.
Lanfare Molded Products, Toledo, Ohio.
Libbey-Owens-Ford Glass Co., Plaskon Division,
Toledo, Ohio.
Lionel Corp., The, Irvington, N. J.
Lioyd Products Co., The, Providence, R. I.
Maico Co., Inc., The, Minneapolis, Minn.
Manufacturers Chemical Corp., Berkeley Heights,
N. J.
Martindell Molding Co., Trenton, N. J.
McDonald Manufacturing Co., Los Angeles, Calif.
Michigan Molded Plastics, Inc., Dexter, Mich.
Molded Insulation Co., Philadelphia, Pa.
Molding Corp. of America, Inc., Providence, R. I.
Monsanto Chemical Co., Springheld, Mass.
Montgomery Ward, Chicago, Ill.
Newark Stove Co., Newark, Ohio.
Northam Warren Corp., Estate Heatrola Division,
Hamilton, Ohio.
Northam Warren Corp., Stamford, Conn.
Northeastern Molding Co., Inc., The, New Haven,
Conn. Northam Warren Corp., Stamford, Conn.
Northeastern Molding Co., Ino., The, New Haven,
Conn.
Northern Industrial Chemical Co., South Boston,
Mass.
Northwest Plastics, Inc., St. Paul, Minn.
Owens-illinois Glass Co., Toledo, Ohio.
Patent Button Co. of Tennessee, The, Knoxville,
Tenn.
Peerless Molded Plastics, Inc., Toledo, Ohio.
Phoenix-American Pipe Works, Boonville, Mo.
Phoenix-American Pipe Works, Boonville, Mo.
Phoenix Metal Cap Co., Chicago, Ill.
Pittsburgh Plastics Co., Latrobe, Ps.
Pittsburgh Plastics Co., Latrobe, Ps.
Pittsburgh Plast Chass Co., Milwaukee, Wis.
(General support.)
Plastic Research Products Co., Urbana, Ohio.
Raymond Laboratories, Inc., St., Paul, Minn.
Recto Molded Products, Inc., Cincinnati, Ohio.
Raymond Laboratories, Inc., St., Paul, Minn.
Recto Molded Products, Inc., Cincinnati, Ohio.
Red Spot Paint & Varnish Co., Evansville, Ind.
Reinhold-Geiger Plastics, Los Angeles, Calif.
Richardson Co., The, Melrosa Park, Ill.
Rodale Manufacturing Co., Inc., Emmaus, Pa.
Safety Car Heating & Lighting Co., Inc., The, Ham
den, Conn.
Sourlock Corp., Chicago, Ill.
Seroussi, Victor I., & Co., New York, N. Y.
Shaw Insulator Co., Irvington, N. J.
Silex Co., The, Hartford, Conn.
Snell, Foster D., Inc., New York, N. Y.
Specification Record, Chicago, Ill.
Standard Plastics Co., Inc., Attleboro, Mass.
Stewart Bros, Paint Co., Alliance, Ohio.
Stokes Molded Products, Trenton, N. J.
Sylvan Plastics, Inc., New York, N. Y.
Synvar Corp., Wilmington, Del.
Tappan Stove Co., The, Mansfield, Ohio.
Terkelsan Machine Co., Boston, Mass.
Texas, University of, Bureau of Engineering Research, Austin, Tex.
Victor Industries Corp., Brooklyn, N. Y.
Victor Metal Products Orp., Brooklyn, N. Y.
Warren Plastics Corp., Warren, Pa.
Waterbury Cos., Inc., Weterbury, Conn. Conn. Wheeling Stamping Co., Wheeling, W. Va.

UNITED STATES GOVERNMENT Agriculture, U. S. Department of, Division of Purchase, Sales & Traffic, Washington, D. C.

COMMERCIAL STANDARDS

28 No.		CS No.
	Commercial standards and their value to	52-35. Mohair pile fabrics (100-percent mohair plain
0-10.	business (third edition).	velvet, 100-percent mohair plain frieze, and
1-42.	Clinical thermometers (third edition).	50-percent mohair plain frieze).
2–30.	Monsticks.	53-35. Colors and finishes for cast stone.
3-40.	Stoddard solvent (third edition).	54–35. Mattresses for hospitals.
4-29.	Staple porcelain (all-clay) plumbing fixtures.	55-35. Mattresses for institutions.
5-46.	Pipe nipples; brass, copper, steel, and wrought-iron (second edition).	56-49. Oak flooring (third edition).
A .01	Wrought iron plan minutes (consent addition)	 87-40. Book cloths, buckrams, and impregnated fabries for bookbinding purposes except library bindings (second edition). 88-36. Woven elastic fabrics for use in overalls (over-
0.01.	Wrought-iron pipe nipples (second edition). Superseded by CS5-46. Standard weight malleable iron or steel	library hindings (second edition)
7-20	Standard weight malleable from or steel	48-36. Woven elastic fabrics for use in overalls (over-
	screwed unions.	all elastic webbing).
8-41.	Gage blanks (third edition).	59-44. Textiles—testing and reporting (fourth edi-
9-33.	Builders' template hardware (second edi-	_tion).
	tion).	60-48. Hardwood dimension lumber (second edi-
10-29.	Brass pipe nipples. Superseded by C85-46.	tion). 61-37. Wood-slat venetian blinds.
11-11.	Moisture regains of cotton yarns (second edition).	69-39. Colors for kitchen eccessories
12-48.	Fuel oils (sixth edition).	63-38. Colors for bathroom accessories.
13-44.	Dress patterns (fourth edition).	62-38. Colors for kitchen accessories. 63-38. Colors for bathroom accessories. 64-37. Walnut veneers. 65-49. Methods of analysis and of reporting fiber
14-43.	Dress patterns (fourth edition). Boys' button-on waists, shirts, junior and	65-43. Methods of analysis and of reporting fiber
	sport shirts (made from woven fabrics) (third edition).	composition of textue products (second
	(third edition).	edition).
10-46.	Men's pajama sizes (made from woven fabrics) (third edition).	66-38. Marking of articles made wholly or in part of
1690	Wall paper.	platinum. 67–38. Marking articles made of karat gold.
17-47	Diamond core drill fittings (fourth edition).	68-38. Liquid hypochlorite disinfectant, deodorant,
18-29.	Highway and chafte	and germicide.
19-32.	Foundry patterns of wood (second edition). Staple vitreous china plumbing fixtures (fourth edition).	and germicide. 69-38. Pine oil disinfectant.
20-47.	Staple vitreous china plumbing fixtures	
	(fourth edition).	(second edition) (published with CS71-41).
ZI-08.	interchangeable ground-glass joints, stop-	71-41. Phenolic disinfectant (soluble type) (second
22_40	cocks, and stoppers (fourth edition). Builders' hardware (nontemplate) (second	edition) (published with CS70-41). 72-38. Household insecticide (liquid spray type). 73-48. Old growth Douglas fir, Sitka spruce, and
<i>22</i> -20.	edition).	73-49 Old growth Donglas fir Sitis aprice, and
23-30.	Feldspar.	Western hemlock standard stock doors
24-43.	Screw threads and tap-drill sizes.	(fourth edition)
25-30.	Screw threads and tap-drill sizes. Special screw threads. Superseded by OS	74-39, Solid hardwood wall paneling.
	24-43.	 74-39, Solid hardwood wall paneling. 75-42. Automatic mechanical draft oil burners designed for domestic installations (sec-
26-30.	Aromatic red cedar closet lining.	designed for domestic installations (sec-
21-00.	Mirrors (second edition). Cotton fabric tents, tarpaulins, and covers	ond edition). 76-39. Hardwood interior trim and molding.
20-10.	(second edition).	77-48. Enameled cast-iron plumbing fixtures (sec-
29-31.	Staple seats for water-closet bowls.	ond edition).
30-31.	Colors for sanitary ware. (Withdrawn as	79_40 Ground-and-nolished langes for sun glasses
	commercial standard, Mar. 15, 1948.)	(second edition) (published with CS79-40).
31-38.	Wood shingles (fourth edition).	(second edition) (published with CS79-40). 79-40. Blown, drawn, and dropped lenses for sun glasses (second edition) (published with
82-31.	Cotton cloth for rubber and pyroxylin coat-	OS78-40).
22-42	ing. Knit underwear (exclusive of rayon) (second	80-41. Electric direction signal systems other than
00 20.	edition).	semaphore type for commercial and other
34-31.	Bag, case, and strap leather.	vehicles subject to special motor vehicle
35-47.	Hardwood plywood (third edition).	laws (after market).
36-33.	Fourdrinier wire cloth (second edition).	81-41. Adverse-weather lamps for vehicles (after
37-31.	Steel bone plates and screws.	market).
38-32.	Hospital rubber sheeting.	 Inner-controlled spotlamps for vehicles (after market).
05-01.	Wool and part wool blankets (second edition). (Withdrawn as commercial standard, July 14, 1941.) Surgeons' rubber gloves. Surgeons' lates gloves.	83-41 Clearance marker, and identification lamps
	ard. July 14, 1941.)	83-41. Clearance, marker, and identification lamps for vehicles (after market).
40-32.	Surgeons' rubber gloves.	84-41. Electric tail lamps for vehicles (after market).
41-32.	Surgeons' later gloves.	85-41. Electric license-plate lamps for vehicles (after
42–43.	permentant trock manuscrift nour fruite con-	market).
49 90	tion).	86-41. Electric stop lamps for vehicles (after
44_99	Grading of sulphonated oils.	market).
45-48.	Apple wraps. Douglas fir plywood (sighth edition).	87-41. Red electric warning lanterns.
46-49.	Douglas fir plywood (eighth edition). Hosiery lengths and sizes (fourth edition). Marking of gold-filled and rolled-gold-plate	88-41. Liquid burning flares.
47-34.	Marking of gold-filled and rolled-gold-plate	89-40. Hardwood stair treads and risers.
	articles other than watchcases.	90-49. Power cranes and shovels. 91-41. Factory-fitted Douglas fir entrance doors.
48-4 0.	Domestic burners for Pennsylvania anthra-	92-41. Cedar, cypress, and redwood tank stock
40-94	cite (underfeed type) (second edition). Ohip board, laminated chip board, and mis-	lumber.
20~04.	cellaneous boards for bookbinding purposes.	93-41. Portable electric drills (exclusive of high fre-
50-34.	Binder's board for bookbinding and other	(voneno.
	purposes.	94-41, Calking lead. 95-41, Lead pipe. 96-41, Lead traps and bends.
51-35.	Marking articles made of silver in combina-	95-41. Lead pipe.
	tion with gold.	1 96-41. Lead traps and dends.

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CS No.	CS No.
97-42. Electric supplementary driving and passing lamps for vehicles (after market).	128-45. Men's sport shirt sizes—woven fabrics (other than those marked with regular neckband sizes).
98-42. Artists' oil paints. 99-42. Cas floor furnaces—gravity circulating type. 100-47. Porcelain-enameled steel utensils (third edi-	129-47. Materials for safety wearing apparel (second edition).
tion). 101-43. Flue-connected oil-burning space heaters	130-46. Color materials for art education in schools. 131-46. Industrial mineral wool products, all types—
equipped with vaporizing pot-type burners. 102- (Reserved for Diesel and fuel-oil engines.)	testing and reporting. 132-46. Hardware cloth. 133-46. Woven wire netting.
103-48. Rayon jacquard velour (with or without other decorative yarn) (second edition).	134-46. Cast aluminum cooking utensils (metal composition).
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edition). 107-45. Commercial electric-refrigeration condensing	138-47. Insect wire screening. 139-47. Work gloves.
units (second edition). (Withdrawn as commercial standard September 4, 1947.) 108-43. Trending automobile and truck tires.	140-47, Testing and rating convectors. 141-47, Sine bars, blocks, plates, and fixtures. 142-47, Automotive lifts.
109-44. Solid-fuel-burning forced-air furnaces. 110-43. Tire repairs—vulcanized (passenger, truck,	143-47. Standard strength and extra strength per- forated clay pipe.
and bus tires). 111-43. Earthenware (vitreous-glazed) plumbing fix- tures.	144-47. Formed metal porcelain enameled sanitary ware. 145-47. Testing and rating hand-fired hot water
112-43. Homogeneous fiber wallboard. 113-44. Oil-burning floor (urnaces equipped with	supply boilers. 146-47. Gowns for hospital patients.
vaporizing pot-type burners. 114-43. Hospital sheeting for mattress protection.	147-47. Colors for molded urea plastics. 148-48. Men's circular flat and rib knit rayon under- wear.
115-44. Porcelain-enameled tanks for domestic use. 116-44. Bituminized-fiber drain and sewer pipe. 117-49. Mineral wool insulation for heated industrial	149-48. Utility type house dress sizes. 150-48. Hot rolled rail steel bars (produced from Tee-
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120-48. Standard stock ponderosa pine doors (third edition).	153-48. Body measurements for the sizing of apparel for girls (for the knit underwear industry).
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126-45. Tank mounted air compressors. 127-45. Self-contained mechanically refrigerated drinking water coolers.	158-49. Model forms for girls' appar I. 159-49. Sun glass lenses made of ground and polished plate glass thereafter thermally curved.
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Where "(E)" precedes the CS number, it indicates an emergency commercial standard, drafted underwar conditions with a view toward early revision.

Notice.—Those interested in commercial standards with a view toward accepting them as a basis of everyday practice may secure copies of the above standards, while the supply lasts, by addressing the National Bureau of Standards, Washington 25, D. C.

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DEPARTMENT OF COMMERCE

National Bureau of Standards

COLORS FOR MOLDED UREA PLASTICS Commercial Standard Action on Proposed Withdrawal

In accordance with § 10.12 of the Department's "Procedures for the Development of Voluntary Product Standards" (15 CFR Part 10, as revised; 35 FR 8349 dated May 28, 1970), notice is hereby given of the withdrawal of Commercial Standard CS 147-47, "Colors for Molded Urea Plastics."

It has been determined that this standard is technically inadequate, no longer used by the industry and that revision would serve no useful purpose. This action is taken in furtherance of the Department's announced intentions as set forth in the public notice appearing in the Federal Recister of November 25, 1974 (39 FR 41191), to withdraw this standard.

The effective date for the withdrawal of this standard will be March 10, 1975. This withdrawal action terminates the authority to refer to this standard as a voluntary standard developed under the Department of Commerce procedures.

Dated: January 3, 1975.

RICHARD W. ROBERTS, Director.

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